

2019 GEOTRACES-CHINA Cruise Planning Workshop

Meeting Room A3-206, Zhoulongquan Building,
Xiang'an Campus, Xiamen University
May 5-6, 2018, Xiamen, China



International Advisory Committee

Dr. Robert Anderson, Lamont-Doherty Earth Observatory, USA

Dr. Ken Buesseler, Woods Hole Oceanographic Institution, USA

Dr. Greg Cutter, Old Dominion University, USA

Planning and Organizing Committee (Workshop and Cruise)

Dr. Yihua Cai, Xiamen University, China

Dr. Zhimian Cao, Xiamen University, China

Dr. Minhan Dai, Xiamen University, China

Dr. Kuanbo Zhou, Xiamen University, China

Dr. Fei Chai, Second Institute of Oceanography, China

Dr. Jingling Ren, Ocean University of China, China

Dr. Jing Zhang, University of Toyama, Japan

Dr. Liping Zhou, Peking University, China

Sponsors



近海海洋环境科学国家重点实验室 (厦门大学)

State Key Laboratory of Marine Environmental Science
(Xiamen University)



$^{112}_{48}\text{Cd}$

^{143}Nd

^{144}Nd

$^{27}_{13}\text{Al}$

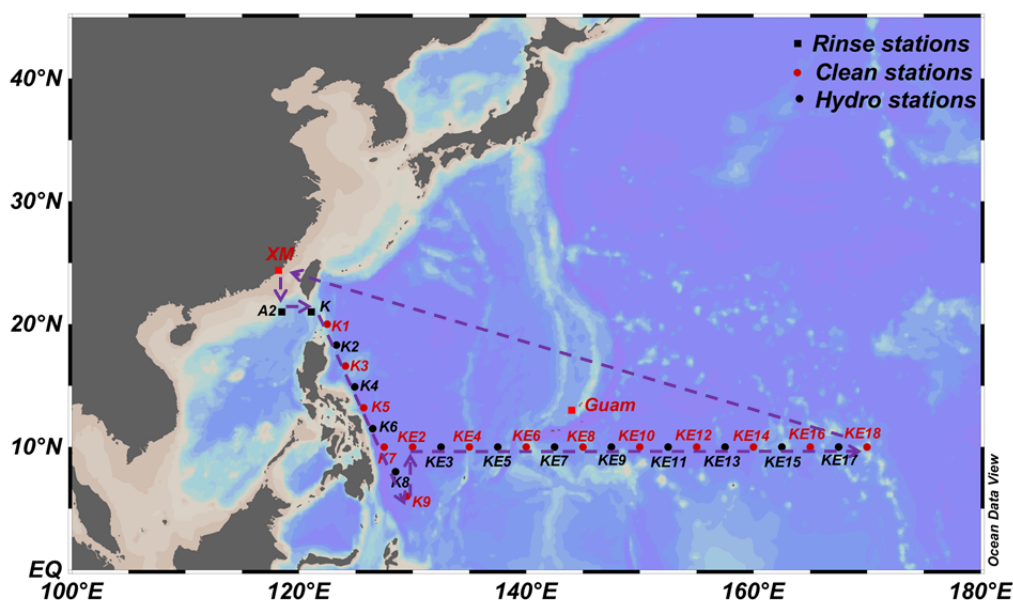
$^{56}_{26}\text{Fe}$

$^{65}_{30}\text{Zn}$

$^{112}_{48}\text{Cd}$

Introduction

GEOTRACES aims to identify processes and quantify fluxes that control the distributions of key trace elements and isotopes (TEIs) in the ocean. With the equipment of a full-scale trace-element sampling system of GEOTRACES standards on the new R/V *TAN KAH KEE* operated by Xiamen University, a GEOTRACES-CHINA cruise planning workshop will be organized by State Key Laboratory of Marine Environmental Science (MEL) in Xiamen, China. The purpose of this workshop is to (1) discuss potential key processes that regulate and control the biogeochemical cycles of TEIs, including their sources/sinks, internal cycling, and use as tracers or proxies in the ocean; (2) share valuable expertise from other nations' on-going GEOTRACES programs; and (3) receive advices from the international GEOTRACES committee. This workshop will deliver a future action and cruise plan of TEIs research in the western North Pacific and its adjacent marginal seas. Here, we would like to invite researchers of interest to participate in this workshop, presenting highlights of relevant findings and providing inputs on the cruise plan.



Preliminary Design of 2019 GEOTRACES-CHINA Cruise to the Western North Pacific

Program

Time	Talk Title	Speaker	Chair
Day 0 May 4, 2018 Friday			
1830-2030	Icebreaker		
Day 1 May 5, 2018 Saturday			
0850-0900	Opening		Minhan Dai
GEOTRACES International			
0900-0930	The GEOTRACES Approach to Ocean Trace Element and Isotope Biogeochemistry	Robert Anderson	Minhan Dai
0930-1000	Planning a GEOTRACES Cruise: Lessons Learned from the US GEOTRACES Program	Greg Cutter	
1000-1030	Thorium and Radium Isotopes as Tracers of Internal Cycling and Sources in the Ocean - Examples from GEOTRACES	Ken Buesseler	
1030-1100	Tea Break & Group Photo		
1100-1120	GEOTRACES Germany: Insights from the South East Atlantic GA08 Section	Tom Browning	Zhimian Cao
1120-1140	Japanese GEOTRACES Transects in the Pacific Ocean: Interaction between Pacific and its Marginal Seas	Jing Zhang	
1140-1200	Brief Introduction on the GEOTRACES-GP06-CN Cruise and Distributions of Dissolved Al and Mn in the Western Pacific	Jingling Ren	
1200-1330	Lunch		
Circulation and Biogeochemistry in the Western North Pacific			
1330-1350	Upper and Deep Ocean Circulations Observed by Scientific Observing Network in the Western Pacific	Jianing Wang	Yihua Cai
1350-1410	Meso- to Submeso-Scale Variability in the North Pacific	Hongyang Lin	
1410-1430	Influence of Kuroshio Intrusion on Nitrogen Processes in the South China Sea	Shuh-Ji Kao	
1430-1450	Dissolved Trace Metals (Fe, Ni, Cu, Zn, Cd and Pb) in China Seas and a Glance in the Western North Pacific	Ruifeng Zhang	
1450-1510	Tea Break		

2019 GEOTRACES-CHINA Cruise Planning – Part I			
1510-1540	A Preliminary Cruise Plan for the Chinese GEOTRACES Section GP09: Scientific Scopes, Cruise Design and Logistics	Yihua Cai	Yihua Cai
1540-1800	Overall Discussion on the Preliminary Cruise Plan		
1900-2100	Workshop Dinner		
Day 2 May 6, 2018 Sunday			
2019 GEOTRACES-CHINA Cruise Planning – Part II			
0900-0930	Trace Metal Testing Cruises in the Western Pacific	Kuanbo Zhou	Kuanbo Zhou
0930-0940	Task Statement from XMU - TEIs (scientific questions and sampling requirement)	Zhimian Cao/ Kuanbo Zhou/ Yihua Cai...	
0940-0950	Task Statement from XMU - C&N coupling (scientific questions and sampling requirement)	Shuh-Ji Kao/ Dalin Shi/ Minhan Dai...	
0950-1000	Task Statement from SIO (scientific question and sampling requirement)	Fei Chai...	
1000-1010	Task Statement from OUC (scientific question and sampling requirement)	Jingling Ren/ Qian Liu/ Jing Zhang...	
1010-1030	Tea Break		
1030-1110	Task Statement from Potential Cruise Participants (scientific question and sampling requirement)	5 min/person	Kuanbo Zhou
1110-1230	Discussion on Task Distribution and International Collaboration (complementarity, no interest confliction, missing tasks.....)		Zhimian Cao & Minhan Dai
1230-1400	Lunch		
2019 GEOTRACES-CHINA Cruise Planning – Part III			
1400-1630	Discussion on Science/Personnel/Data/Funding (major science questions beyond individual institute, onboard berths, data sharing system and database, major funding sources.....)		Yihua Cai & Minhan Dai
1630-1700	Tea Break & Report Formation (preparing slides)	Yihua Cai/ Kuanbo Zhou/ Zhimian Cao	
1700-1800	Report and Summary & AOB	Yihua Cai/ Kuanbo Zhou/ Zhimian Cao	

Accommodation

Double Tree by Hilton Xiamen - Wuyuan Bay (<http://doubletree3.hilton.com/en/index.html>)

Meals

Date	Event	Time	Venue
4 May 2018	Icebreaker	18:30-20:30	All Day Dinning of DoubleTree by Hilton Xiamen
5 May 2018	Lunch	12:00-13:30	Sunset City (Café)
5 May 2018	Dinner	19:00-21:00	Fliport Hotel Xiamen Software Park
6 May 2018	Lunch	12:30-14:00	Sunset City (Café)
6 May 2018	Dinner	19:00-21:00	Xiamen Aqua Resort Hotel at Wu Yuan Wan Bay

Shuttle Bus Schedule

Date	Time	Route
5 May 2018	7:50	Double Tree by Hilton → XMU Xiang'an campus
	12:10	XMU Xiang'an campus→ Sunset City (Café)
	13:20	Sunset City (Café) → XMU Xiang'an campus
	18:15	XMU Xiang'an campus → Fliport Hotel Xiamen Software Park
	21:15	Fliport Hotel Xiamen Software Park→ Double Tree by Hilton
6 May 2018	8:00	Double Tree by Hilton → XMU Xiang'an campus
	12:40	XMU Xiang'an campus → Sunset City (Café)
	13:50	Sunset City (Café) → XMU Xiang'an campus
	18:15	XMU Xiang'an campus → Xiamen Aqua Resort Hotel at Wu Yuan Wan Bay
	21:15	Xiamen Aqua Resort Hotel at Wu Yuan Wan Bay→ DoubleTree by Hilton

Remark: For the morning sessions from the Double Tree by Hilton to XMU Xiang'an campus, please wait the shuttle bus outside the Lobby of Double Tree by Hilton 5 minutes before the scheduled time. The bus will depart on schedule.

Wi-Fi Connection Instructions

Wi-Fi in the meeting room A3-206: the username is MEL-Password or conference1 and the password is melmel888.

Contact Us

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Participants List

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Map of Xiamen



厦门大学翔安校区地图
Map of Xiamen University Xiang'an Campus



A: Zhou Long Quan Bldg
B: Academic Exchange Center
C: Student Canteen
D: Banks & Grocery/Drug Store

E: Front Gate
F: East Gate
G: East Side Gate
H: West Side Gate

I: Sports Field
J: City Bus Stop
K: Library
L: Student Street